

FILIPPOV, Iosif Filippovich; ZASLAVERTY, D.I., dots., retsenzent;
IVANOV, N.P., kand. tekhn. nauk, nauchn. rod.; USSER,
A.S., kand. tekhn. nauk, red.; ZHERVE, G.K., kand. tekhn.
nauk, red.; ZARITSKIY, Ya.V., rod.

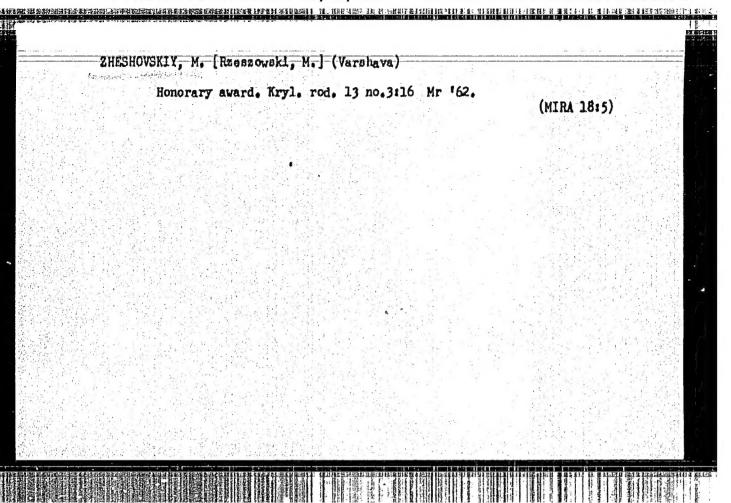
[Problems of the cooling of electrical machines] Voprosy
okhlazhdenita elektrichaskikh rusain. Noskva, Energiia,
1964. 333 p. (MIRA 18:1)

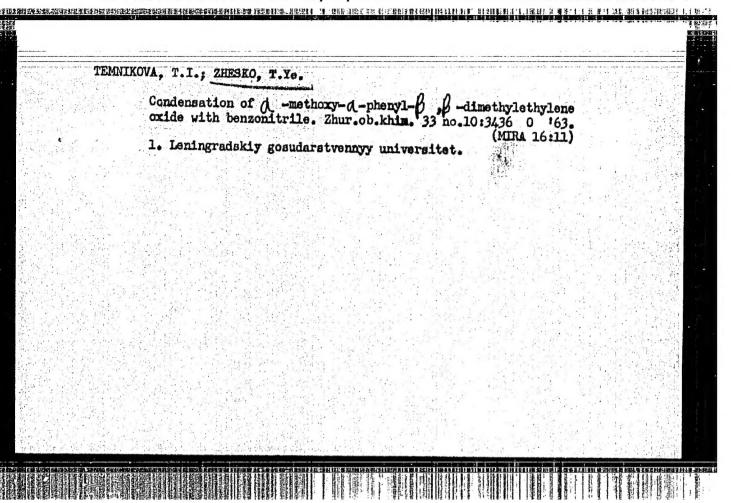
ZHERYAGIN, V. G.

Zheryagin, V. G.

"The use of herbicides on tea plantations." Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev. Moscow, 1956. (Dissertation for the Degree of Candidate in Sciences.)

Knizhnaya Letopis' No. 18, 1956. Moscow.

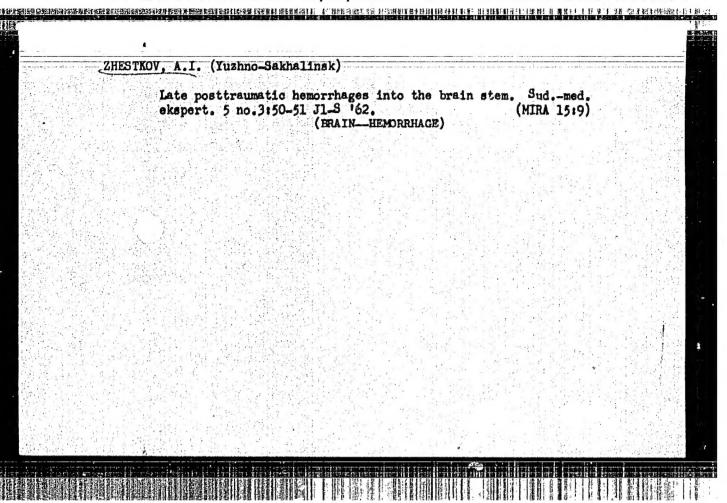


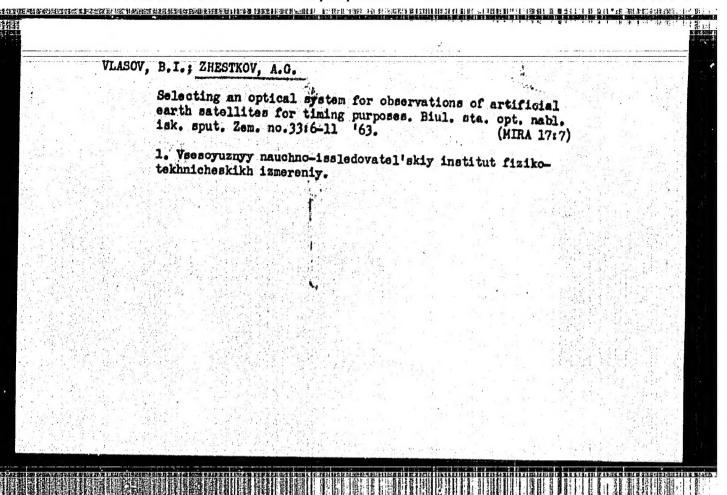


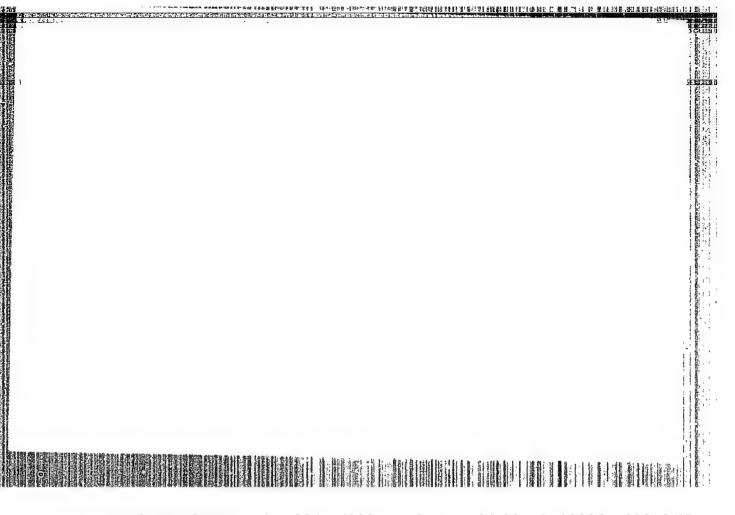
ZHESTEV, N.

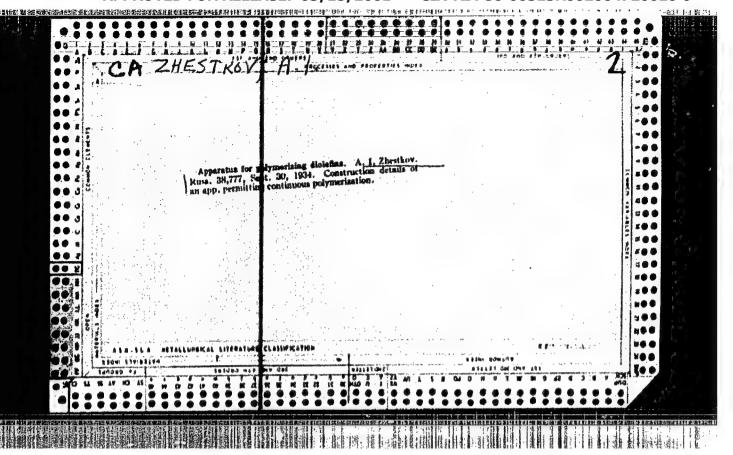
Wrote about (1) Pashskaya Splavnaya Kontora: lumbering, floating, production of sleepers, shipbuilding, mumber of workers. (2) Timber output in "30-kiver District". 1. Pashskiy /R-N. 1 and 2. Leningradskaya o., HSFSR

SOVIET SOURCE: N: Leningradskaya Pravda No. 5L, 6 Mar. 'L7, Leningrad ABSTRACTED IN USAF "TREASURE ISLAND", ON FILE IN LIBRARY OF CONGRESS, AIR INFORMATION DIVISION, REPORT NO. 90116 . UNCLASSIFIED









YUDIN, Vasiliy Kliment'yevich; ZHESTKOV, S.V., kand. tekhm. nauk, dots., retsonzent; FLEYSIMAN, N.P., dots., retsenzent; SLIN'KO, B.I., red.; SERAFIN, V.T., tekhm. red.

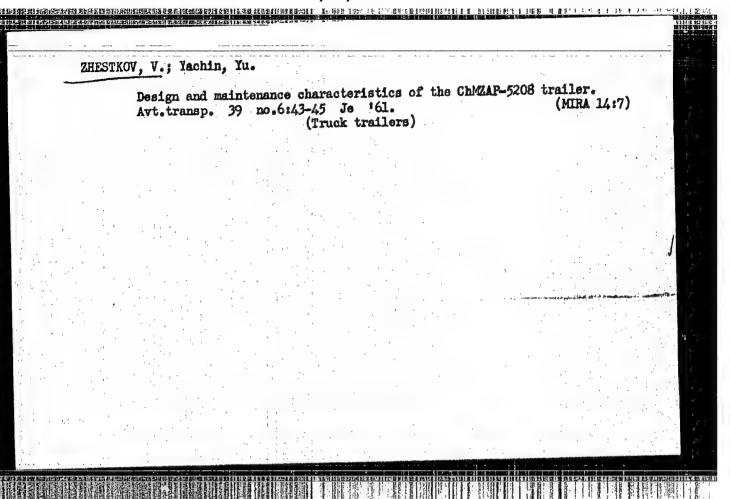
[Design of three-dimensional frames] Raschet prostremstvennykh ram. Kiev, Gos. izd-vo lit-ry po stroit. i arkhit.

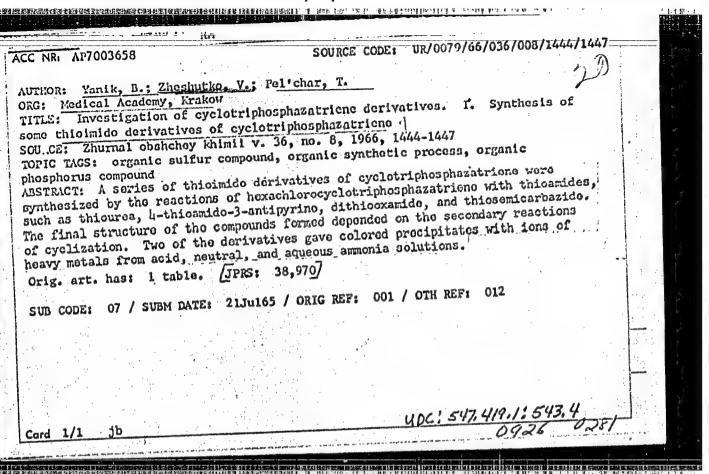
USSR, 1961. 141 p. (NIRA 1513)

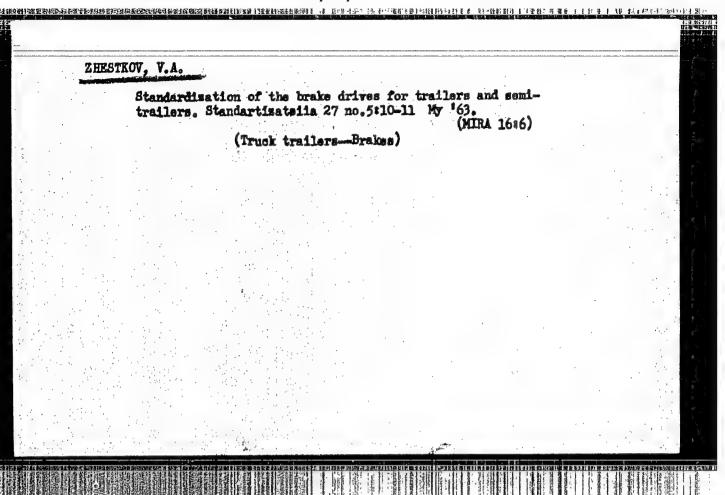
1. Leningradskiy inzhenerno-stroitel'niy institut (for Zhestkov).

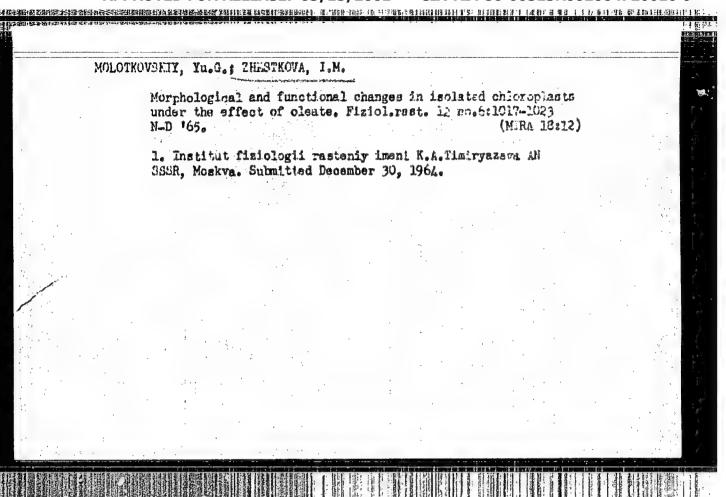
2. L'vovskiy gosudarstvennyy universitet (for Fleysiman).

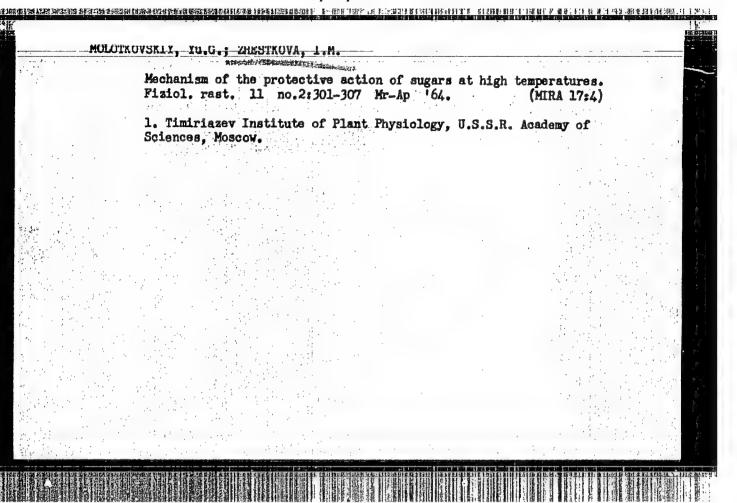
(Structural frames)





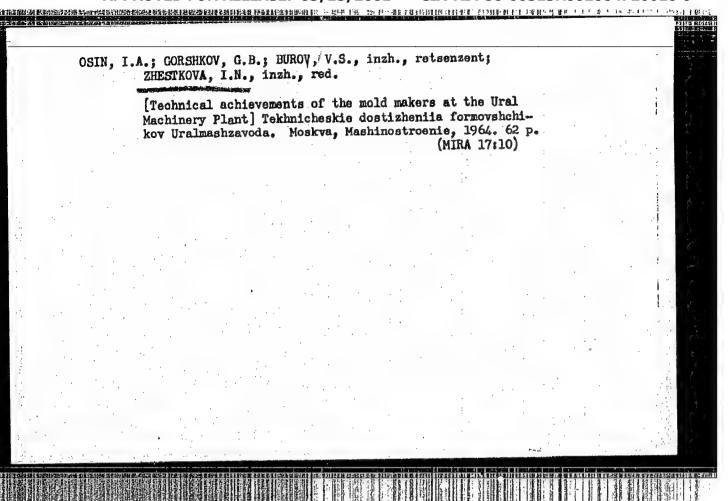






NEBOCATOV, Yu.Ye.; TAMAROVSKII, V.I.; OZEROV, V.A., kand. tekhn.
nauk, retsenzent; ZHESTKOVA, I.N., inzh., red.

[Special casting processes] Spetsial'nye vidy lit'ia. Moskva, Mashinostroenie, 1965. 158 p. (MIRA 18:9)

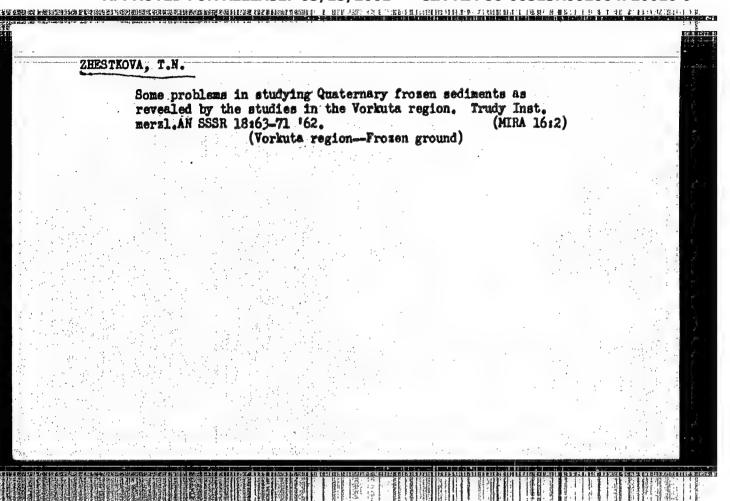


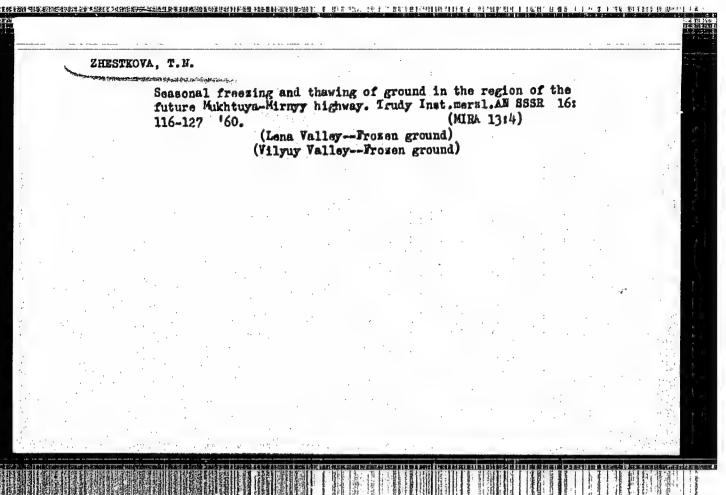
ZHAROV, N.T.; DUBININ, N.P., doktor tekhn. nauk, prof., retsenzent; POLOVINKIN, P.I., dots., retsenzent; CHERNIN, E.A., inzh., retsenzent; ZHESTKOVA, I.N., inzh., red.

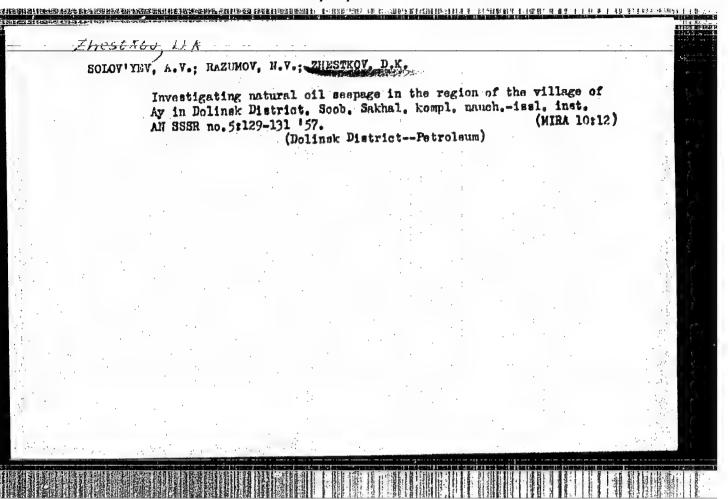
[Automation of certain foundry processes] Avtomatizatsiia nekotorykh liteinykh protsessov. Moskva, Mashinostroenie, 1964. 278 p. (MIRA 18:1)

KNYAZYUK, L.V.; POROYKOV, I.V., doktor tekhn. nauk, prof., retsenzent; ZHESTKOVA, I.N., inzh., red.

[Radiography of castings] Rentgenografiia otlivok. Moskva, Mashinostroenia, 1965. 95 p. (MIRA 18:3)







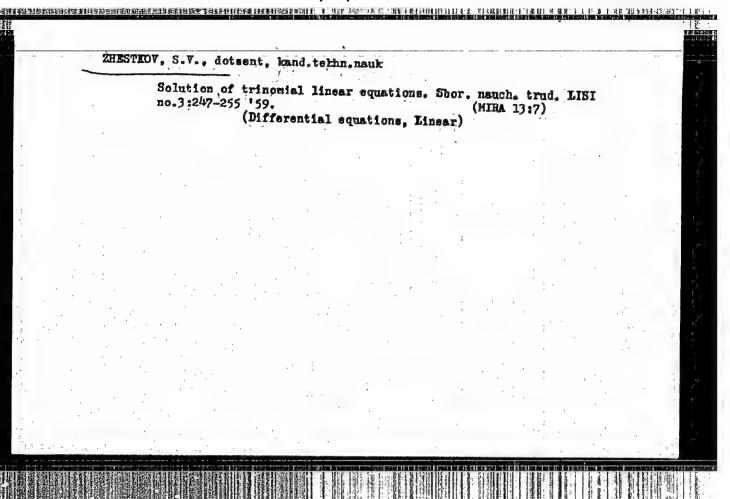
KOTSYUBINSKIY, O.Yu., doktor tekhn. nauk; IVANOV, D.P., doktor tekhn. nauk, prof., retsenzent; ZHESTKOVA, I.N., inzh. red.

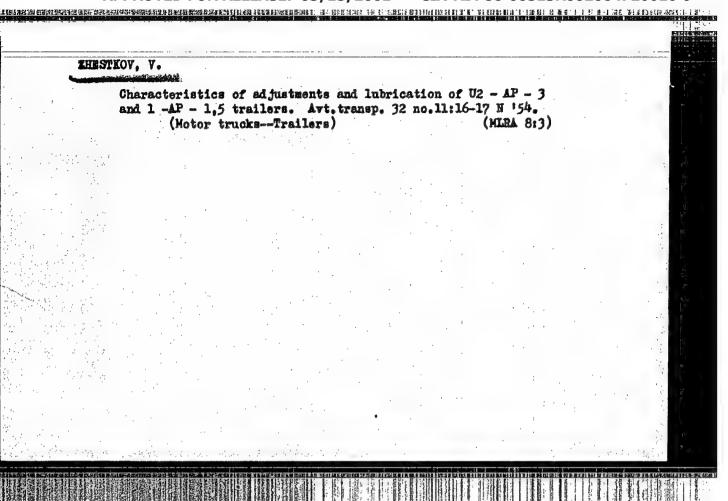
[Warping of iron castings from residual stresses] Koroblenie chugunnykh otlivok ot ostatochnykh napriszhenii. Moskva, Mashinostroenie, 1965. 174 p. (MIRA 18:4)

RAZUMOV, N.V.; ZHESTKOV, D.K.

Rapid method for determination of nitrogen in petroleum and potroleum products, lzv. vost. fil. AN SSSE no.11:60-62 '57. (MIRA 11:1)

1. Sakhalinskiy kompleksnyy nauchno-iseledovatel'skiy institut Akademii nauk SSSR. (Witrogen) (Petroleum—Analysis)

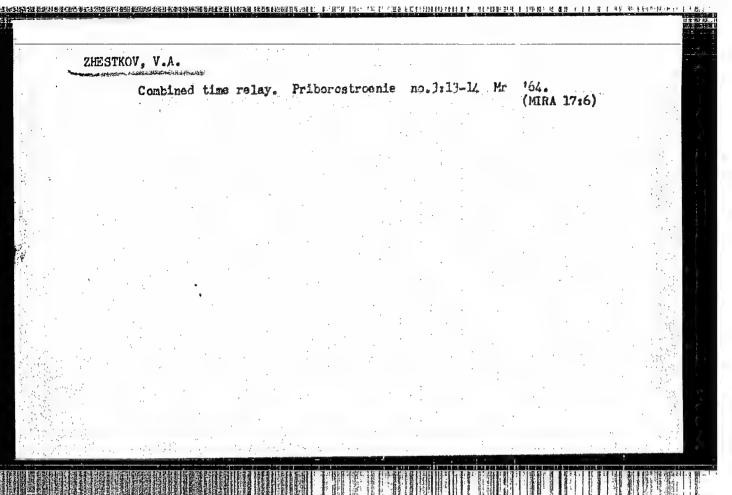


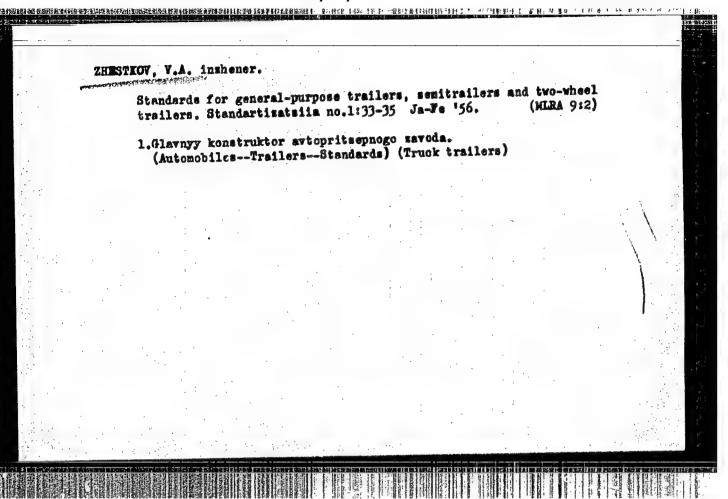


ZHESTKOV, V.; MALIHOVSKIY, P.

Improvements in the design of the U2-AP-3 automebile trailer hitch. Avt.transp.34 ne.5:27-28 My '56. (MIRA 9:9)

1.Irbitskiy saved avtopritespev. (Automobiles--Trailers)



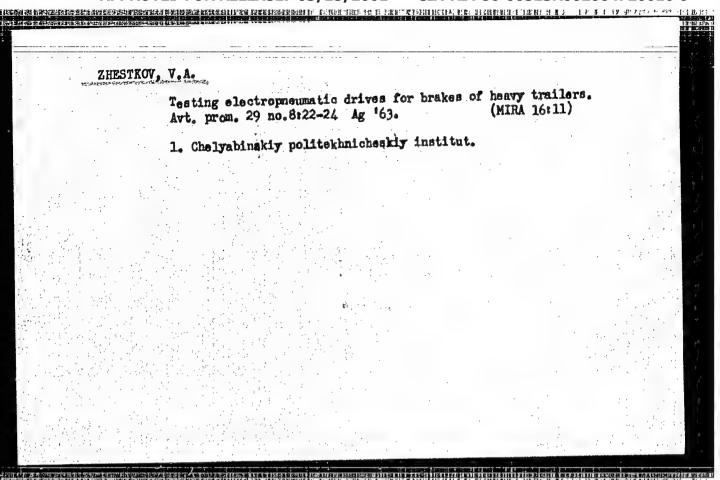


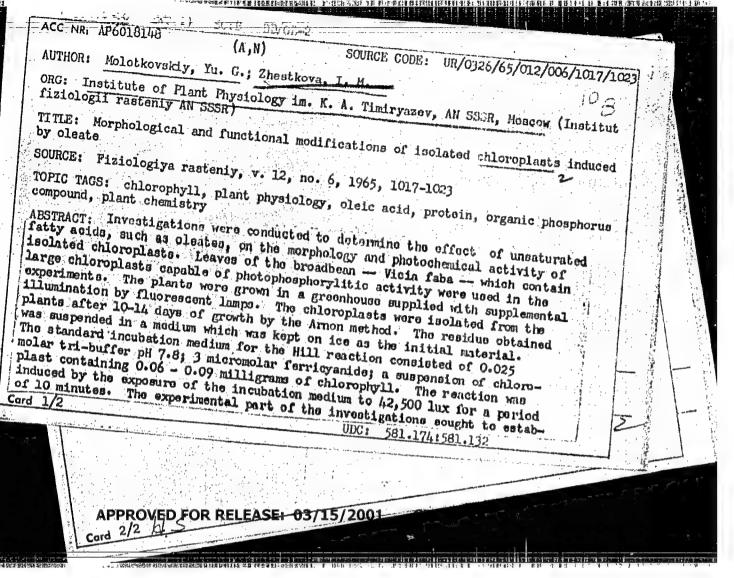
ZHESTKOV, V.A.

Area of use of transportation by means of dumping and selfdumping trucks. Gor zhur. no. 6:17-18 Je *61. (MIRA 14:6)

1. Mynyy konstruktor Chelyabinskogo mashinostroitel*nogo zavoda avtotraktornykh pritsepov.

(Dump trucks) (Mine haulage)





LYASS, A.M., doktor tekhn. nauk; SHKLENNIK, Ya.I., kand. tekhn. nauk, retsenzent; ZHESTKOVA, I.N., inzh., red.

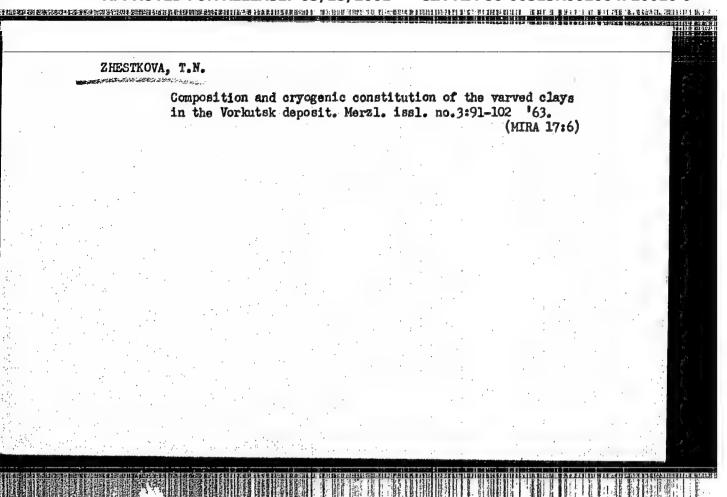
[Quick hardening molding mixtures] Bystrotverdeiushchie formovochnys smesi. Moskva, Mashinostroenie, 1965. 331 p. (MIRA 18:2)

(MIRA 17:11)

ZHESTKOVA, T.t. Forming ice horizons in the sediments freezing according to epigenetic type. Vest. Mosk. un. Ser. 4: Geol. 19 no.4:59-65

1. Kafedra merzlotovedeniya Moskovskogo universiteta.

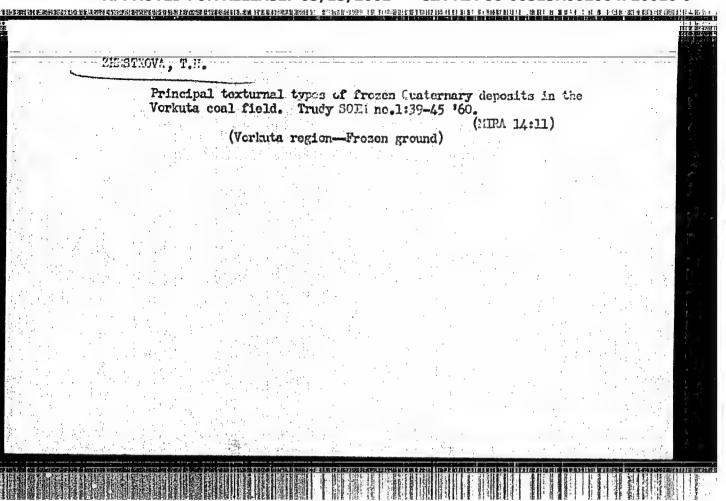
J1-Ag 164.



ZHESTKOVA, T.N.; FEL'IMAN, G.M.; DUKHIN, I.Ye.; SHVETSOV, P.F.

Formation of glacial horizons in epigenetic frozen strata.
Dokl. AN SSSR 156 no. 3:558-560 '64. (MIRA 17:5)

1. Chlen-lorrespondent AN SSSR (for Shvetsov).



S/081/62/000/024/040/052 B106/B186

AUTHORS:

Vasil'yeva, M. N., Kamerina, T. P., Komarova, Ye. I., Zhestkova, Ye. N., Maslova, M. F., Smirnova, Ye. V., Ivanov, N. N., Bikbayeva, N. S., Koptyayeva, V. A.

TITLE:

Choice of a new oiling agent for processing capron in

synthetic fiber plants

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 24 (II), 1962, 947, abstract 24P979 (Nauchno-issled. tr. Tsentr. n.-i. in-t shelk. prom-sti. M., Rostekhizdat, 1960 (1962), 82-94)

TEXT: On the basis of the results obtained in the testing of new ciling agents the authors recommend that 2.5 - 4.5% of the type K-160 (-160) should be applied to the fiber. The ciling agent consists of 82% Velosite $\mathcal{N}(L)$, 6% $\partial \Omega$ -4 (OP-4) and 6% Stearoks-6. Twisting is to be stabilized by low-pressure steaming. [Abstracter's note: Complete translation.]

Card 1/1

KOLOHTSOVA, Ye.V., ZHESTOVSKAYA, M.I.

Effect of neutron bombardment on the structure of lithium fluoride crystals. Kristallografiia 5 no.1:56-62 Ja-F '60. (MIRA 13:7)

1. Moskovskiy gosudarstvennyy universite im. M.V. Lomonosova. (Lithium fluoride)

24.7100

78099 SOV/70-5-1-8/30

AUTHORS:

Kolontsova, Ye. V., Zhestovskaya, M. I.

TITLE:

Effect of Neutron Bombardment on Structure of Lithium

Fluoride Crystals

PERIODICAL:

Kristallografiya, 1960, Vol 5, Nr 1, pp 56-62 (USSR)

ABSTRACT:

The exposure of crystals to neutron radiation has been known to: (1) produce defects such as lattice vacancies, interstitial atoms, and "thermal zones"; (2) alter the solid state structure due to local rise of temperature; (3) melt and recrystallize certain regions of crystals. The authors studied the first group of effects by selective etching, and analyzing the diffuse scattering of X-rays. LiF was selected because of its low heat conductivity, high transparency to X-rays, and the presence of well known methods and agents of etching. Narrow beams of limited range of wavelengths permitted the deter-

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Effect of Neutron Bombardment on Structure of Lithium Fluoride Crystals

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mination of disoriented regions and the intensity distribution within the diffuse scattering maxima. The crystals were placed in the camera with one of the [100] parallel to the incident beam, and two others to the vertical and horizontal axes of the camera. The intensities of scattered rays, developed before and after the exposure of crystals to neutron radiation, could be compared using the diffractions from a Ni-wire, placed just before the crystals, as a scale. The exposure to neutron radiation of 7.8 · 1017 neutron/cm2 intensity produced weak diffraction arcs around some diffraction spots but did not change the scattering regions. The increase of the intensity of neutron radiation to 2.2. neutron/cm² increased the number of diffractions along concentric rings; and produced irregularly distributed new spots and anomalous diffraction lines,

Card 0/5

Effect of Neutron Bombardment on Structure of Lithium Fluoride Crystals

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trending from the pattern center to diffraction spots of (200)-type. Further increased intensity of neutron beams to 5 · 10¹⁸ neutron/cm² made the additional diffractions even more diffuse and caused their coalescence; the anomalous diffraction lines became very complicated; the intensity of some diffractions increased while that of others decreased; the crystals became parted into slightly disoriented blocks, 0.1 to luacross. Etching of crystals before and after the exposure to neutron radiation confirmed the conclusions based on the analysis of diffuse scattering. Unexposed crystals showed etch figures repeating the dislocation pattern, while exposed crystals got rough surfaces due to numerous uniformly distributed pits of irregular form. Within this uniformly etched surface, especially at its. margins, there appeared equiaxial areas with deeper pits, and elongated areas parallel to 100, with rectangular pits. The depth and extension of pits as well as of the areas with deeper and rectangular

Card 3/5

Effect of Neutron Bombardment on Structure of Lithium Fluoride Crystals

78099 SOV/70-5-1-8/30

pits increases with the intensity increase of neutron radiation. The equiaxial areas with deeper pits seem to represent disoriented blocks, while the rectangular pits are likely to develop on dislocations decorated with the gases of decomposition. Etching of crystals, layer after layer, disclosed that the effects of neutron bombardment decrease with the depth. At a certain depth (about 0.1 mm), depending on the intensity of neutron radiation, first the irregularly shaped pits, then the deeper pits, and finally the rectangular pits disappear completely. This surface layer, called fragmentation layer, crumbles within the equiaxial areas easily and permits etching of the underlying surface whose etch figures resemble those on the crystal before being exposed to neutron radiation. The authors believe that anomalous diffraction lines do not result from composition changes due to Li segregation, as assumed by A. Guinier and M. Lambert, but from the distribution of defects along the directions of weakest bonds cleavage in the same (100) direction) which become even

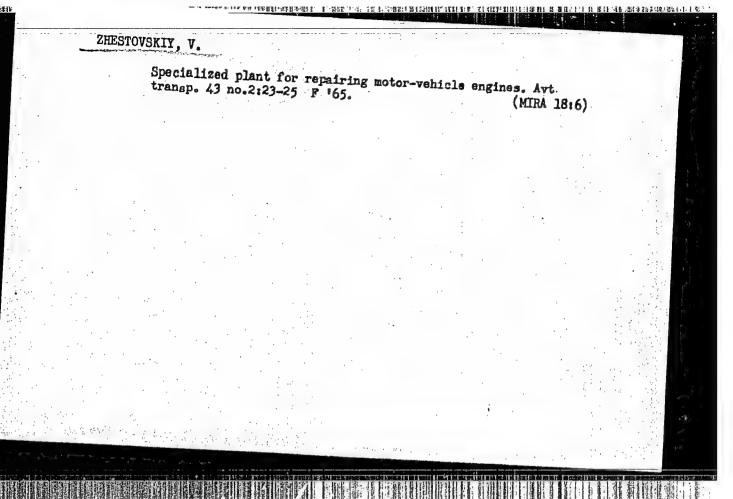
Card 4/5

weaker while exposed to neutrons, and san, consequently, break easily when partition into blocks takes place.

2 French, 1 U.K., 1 Danish. The U.S. references are:
Phys., 29, 5, 747, 1958, J. J. Allman, W. G. Johnston, G. W. Slears, J. Appl.
J. Appl. Phys., 29, 6, 677, 1958; R. Chang, J. Appl.
Phys., 28, 4, 385, 1957; J. Gilman, W. Johnston, J. Appl. Phys., 27, 9, 1018, 1956; P. Seltz, Phys. Rev.,

ASSOCIATION:
Moscow State University Imeni M. V. Lomoncaov (Moskovskiy gosudar, vennyy universitet imeni M. V. Lomoncaova)

Card 5/5



SOV/169-60-1-1063

Translation from: Referativnyy zhurnal, Geofizika, 1960, Nr 1, p 141 (USSR)

AUTHORS:

Zhestyannikov, L.A., Kobrin, M.M.

TITLE:

The F2-Layer of the Ionosphere During the Solar Eclipse on February 25, 1952, in Gor kiv

PERIODICAL:

V sb.: Polnyye solnechn. zatmeniya Febr. 25, 1952, and June 30, 1954. Moscow, AS USSR, 1958, pp 351 - 355

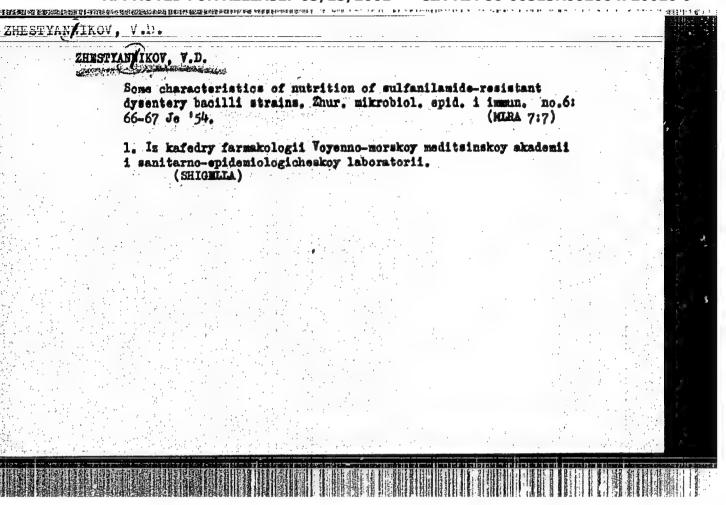
ABSTRACT:

Results of a vertical sounding of the ionosphere in Gor'kiy during the eclipse on February 25, 1952, are described; the results were obtained by a manual ionospherical station having a range from 3.5 to 12.0 Mops. The course of the visual eclipse was computed, for comparison for altitudes of 0, 400, and 600 km from faculas, hydrogen filaments, and the corona, taking into consideration the distribution of the green corona line. The computations of the true distribution of the electron concentration along the altitude of the F2-layer showed that the F2-layer strongly differed from the parabolic, both in the day of eclipse and in the control days. The authors assume that the

Card 1/2

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002064720010-9



VAL'DSHTEYN, E.A.; ZHESTYANIKOV, V.D.

Postirradiation recovery of Escherichia coli irradiated under different conditions (in air, in nitrogen and in nitrogen in the presence of cysteamine). Radicbiologiia 3 no. 6:809-814 (MIRA 17:7)

1. Institut tsitologii AN SSSR, Leningrad.

ZHESTYANIKOV, V.D. Radioresistance of Escherichia coli cultivated under the Radiobiologiia 3 influence of continuous gamma irradiation. no. 6:847-854 163. 1. Institut tsitologii AN SSSR, Loningrad.

CIA-RDP86-00513R002064720010-9" APPROVED FOR RELEASE: 03/15/2001

建筑建设设施设施设施,通过的企业,1915年,

s/0205/64/004/001/0096/0101

AP4015092 ACCESSION NR:

AUTHOR: Zhestyanikov, V. D.

TITLE: Development of elongated forms of E. coli during cultivation

under continuous gamma-irradiation

SQURCE: Radiobiologiya, v. 4, no. 1, 1964, 96-101

TOPIC TAGS: E. coli cultivation, continuous gamma-irradiation, ingreased radioresistance, S-shaped dose-effect curve, E. coli erongated form, subbacteriostatic action, erythromycin concentration, high temperature, cell division inhibition, first passage

This work is largely based on literature sources which indicate that prolonged cultivation of E. coli B, B/r, and K 12 under continuous gamma-irradiation at low dose rates increases their radioresistance and produces S-shaped dose-effect curves for many of the gamma-resistant variants. The author assumes that this increased radioresistance may be related to morphological changes of culture properties, particularly the development of elongated forms of E. coli B, and then proceeds to determine the validity of such an assumption.

Card 1/3

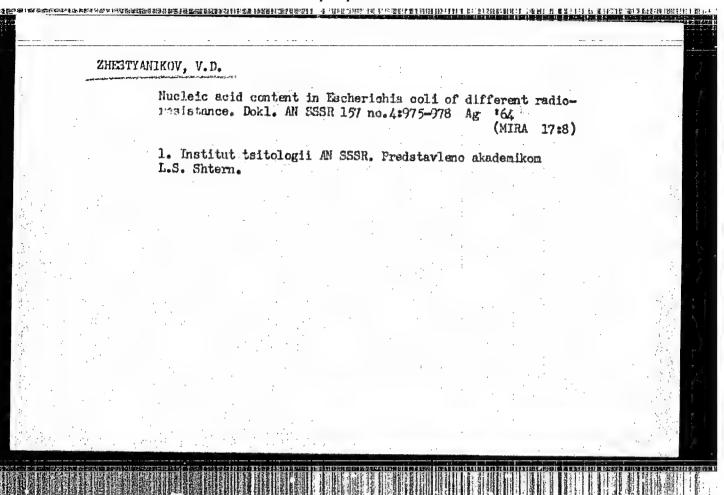
ACCESSION NR: AP4015092

First the morphology of E. coli gamma R strains were studied with a phase contact device and the use of dyes. Then, to induce elongated forms of bacteria, E. coli B strains were cultivated under the subbacteriostatic effect of concentrated erythromycin (25-30 mkg/ml) or of 46°C temperature for 18 hrs. Radioresistance of the variants was determined according to methods described in a 1953 study by the same author. E. coli B cultivated under the subbacteriostatic effects of erythromycin or 46°C temperature produces elongated forms, increases its radioresistance, and has S-shaped dose-effect curves. These changes are similar to those produced by continuous gamma-irradiation and disappear after the first passage without the inducing factor action. Radiation in sublethal doses and nonradiation factors (erythromycin and 46°C temperature) have the capacity to inhibit the division of cells without affecting their growth, which apparently contributes to increased radioresistance, development of elongated forms, and to S-shaped dose-effect curves. Orig. art. has: 2 tables and 2 figures.

ASSOCIATION: Institut tsitologii AN SSSR, Leningrad (Cytology Institute AN SSSR)

Card 2/3

ACCESSION NR: APIO15092
SUBMITTED: 220ot62 DATE ACQ: 12Mar6l4 ENGL: 00
SUB CODE: 18 NR REF SOV: 009 OTHER: 021



ABRAMOVA, Zh.I., kand. med. nauk; ANICHKOV, S.V., prof.; BELEN KIY, M.L., prof.; VAL'DMAN, A.V., doktor med. nauk; VEDEREYEVA, Z.I., kand. med. nauk; VINOGRADOV, V.M., kand. med. nauk; GENSHANOVICH, M.L., kand. med. nauk; GINETSINSKIY, A.G., prof.; GORBOVITSKIY, S.Ye., prof.; CREBENKINA, M.A., dotsent; CREKH, I.F., dots.; DENISENKO, P.P., kand, med, nauk; D'YACHENKO, P.K., kand, med, nauk; ZHESTYANIKOV, V.D., kand. med. nauk; ZAUGOL'NIKOV, S.D., prof.; ZEYMAL', E.V., kand. med. nauk; ISKAREV, N.A., kand. med. nauk; KARASIK, V.M., prof.; KIVMAN, G.Ya., kand. med. nauk; KOZLOV, O.D., kand. med. nauk; KROTOV, A.I., doktor veter. nauk; KUDRIN, A.N., doktor med. nauk; LAZAREV, N.V., prof.; LAPIN, I.P., kand. med. nauk; MEL'NIKOVA, V.F., prof.; MESHCHERSKAYA, K.A., prof.; MIKHEL'SON, M.Ya., prof.; MOSHKOVSKIY, Sh.D., prof.; PADEYSKAYA, Ye.N., kand. med. nauk; PARIBOK, V.P., prof.; PERSHIH, G.N., prof.; PLANELYES, Kh.Kh., prof.; PONOMAREV, G.A., prof.; POSKALENKO, A.N., kand. med. nauk; MUKHIN, Ye.A., dots.; ROZOVSKAYA, Ye.S., dots.; RYBOLOVLEV, R.S., starshiy nauchnyy sotr.; SALYAMON, L.S., kand. med. nauk; SAFRAZBEKYAN, R.R., kand. biol. nauk; TIUNOV, L.A., kand. med. nauk; TOMILINA, T.N., dots.; FELISTOVICH, G.I., kand. med. nauk; FRUTENTOV, N.K., kand. med. nauk; KHAUNINA, R.A., kand. med. nauk; TSYGANOV, S.V., prof.[deceased]; CHERKES, A.I., prof.: (Continued on next card)

现的未出来的事情就是我的政政教理可以使用的证明,并未是一个人的证明,他们还是不完成的。这个人的证明,也不是一个人的证明,他们可以让我们的证明,不是一个人的证明,但

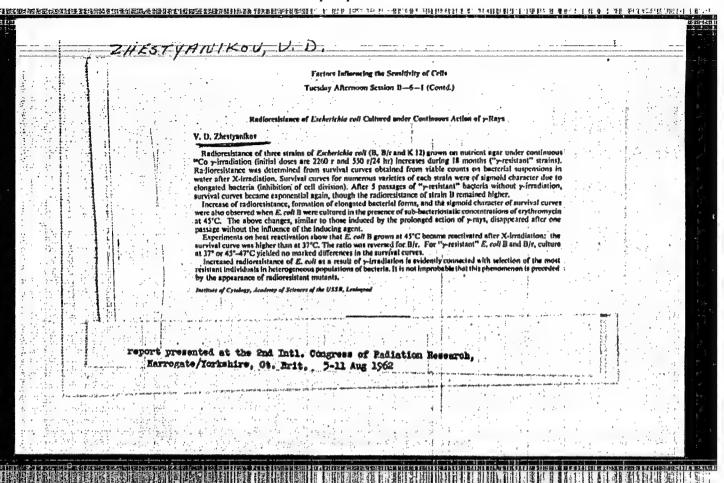
ABRAMOVA, Zh.I.—(continued) Card 2.

CHERNOV, V.A., doktor med. nauk; SHADURSKIY, K.S., prof.;
YAKOVLEV, V.Ya., doktor khim. nauk; MASHKOVSKIY, M.D., red.;
NIKOLAYEVA, M.M., red.; RULEVA, M.S., tekhn. red.; CHUNAYEVA,
Z.V., tekhn. red.

[Manual on pharmacology] Rukovodstvo po farmakologii. Leningrad, Medgiz. Vol.2. 1961. 503 p. (MIRA 15:1)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Anichkov, Karasik, Cherkes). 2. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Belen'kiy, Ginetsinskiy, Moshkovakiy, Planel'yes).

(PHARMACOLOGY)



ACCESSION NR: AP4001909

\$/0205/63/003/006/0809/0814

AUTHOR: Val'dshtoyn, E. A.; Zhestyanikov, V. D.

TITLE: Restoration of Escherichia coli B. after irradiation under various conditions (in air, in nitrogen, and in nitrogen in the presence of cysteamine)

SOURCE: Radiobiologiya, v. 3, no. 6, 1963, 809-814

TOPIC TAGS: lethal dose curve, bacterial culture, postirradiation bacteria restoration

ABSTRACT: Escherichia coli B (E. coli B) were X-irradiated with doses ranging from 3 to 24 krad (RUM-11 unit, 200 kv, 20 ma, focal length 70 mm, no filter, 1000 rad/min) in air, nitrogen, and nitrogen in the presence of cysteamine. Then irradiated E. coli B were incubated in different culture mediums at 19°, 37°, and 45°C for 20-48 hrs. Restoration volume indicating the number of restored cells compared to the number of damaged cells served as an index for a given radiation dose. A comparison of restoration volumes for E. coli B irradiated under different conditions but cultivated in the same cultures shows that the restoration volume is lowest for E coli Card 1/2

ACCESSION NR: AP4001909

B irradiated in air. Irradiation under anoxic conditions increases the restoration volume in all cases. Restoration volume increases even more when cysteamine is present during irradiation and postradiation cultivation temperature is 45°C. Restoration volume depends first on irradiation conditions (air, nitrogen, and nitrogen; in the presence of cysteamine) and secondly depends on radiation dose. The authors express their gratitude to V. P. Paribok for valuable advice and discussion of the work. Orig. art. has: 3 figures,

ASSOCIATION: Institut tsitologii AN SSSR, Leningrad (Cytology

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ACCESSION NR: AP4001914

5/0205/63/003/006/0847/0854

AUTHOR: Zhestyanikov, V. D.

TITLE: Radioresistance of Escherichia coli cultivated under continuous Gamma irradiation

SOURCE: Radiobiologiya, v. 3, no. 6, 1963, 847-854

TOPIC TAGS: Gamma irradiation, bacteria radioresistance, Escherichia coli radioresistance

ABSTRACT: Three strains of Escherichia coli (B, B/r (Carnegie) and K 12) were cultivated for 22 mos under continuous gamma irradiation with daily starting doses of 2260 and 550 r. Each of the 3 resulting variants was placed in a Petrie cup with a nutritive medium and was gamma irradiated for 24 hrs at 37°C to determine survival rate by number of macrocolonies. Radioresistance of the bacteria variants was investigated after 24 hrs and 1, 2, 8-22 mos by growing cultures in a test tube directly under X-irradiation (RUM-11 unit, 180 ky, 20 ma, focal length 50 mm, no filter) for 18 hrs. Survival dose curves were used as indices. Radioresistance of all three variants is higher than that of the initial strains with the most marked Cord 1/2

ACCESSION NR: AP4001914

increase in the E. coli B variant. The three initial strains are characterized largely by exponential dose curves and the variants are characterized largely by S-shaped curves. In populations of variants, zooids are found whose radioresistance does not differ from that of the initial cultures, indicating that radioresistance changes do not take place at the same time in a population. Basically the selection of preexisting or induced mutants is considered responsible for increased radioresistance of E. coli cultivated under continuous gamma irradiation. "The author expresses gratitude to V. P. Paribok for attention and interest in the work and to Ye. Ye. Kranoperova and N. Ye. Titova, laboratory technicians, for their assistance. Orig. art. has: 3 figures, 2 tables.

ASSOCIATION: Institut tsitologii AN SSSR, Leningrad (Cytology Institute, AN SSSR)

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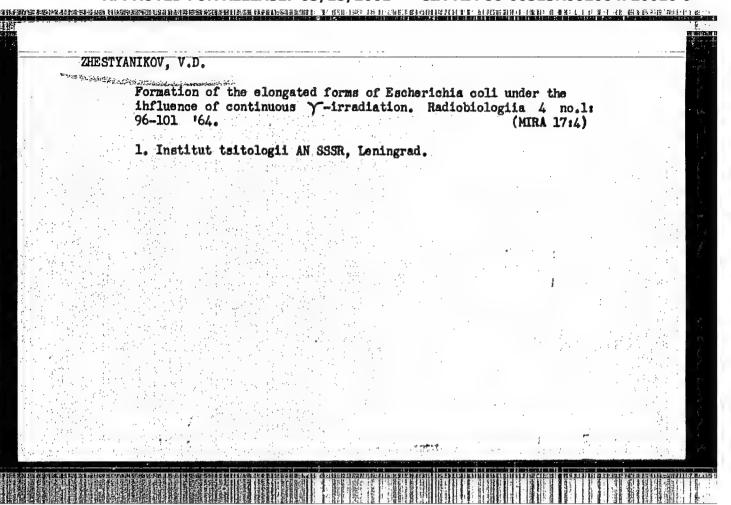
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ACC NRI AP70 06775

SOURCE CODE: UR/9053/67/009/001/0003/0020

AUTHOR: Val'dshteyn, E. A.; Zhestyanikov, V. D.

ORG: Laboratory of Radiation Cytology, Institute of Cytology, AN SSSR, Leningrad (Laboratoriya radiatsionnoy tsitologii Instituta tsitologii AN SSSR)

TITLE: Molecular mechanisms of cell reparation from radiation injuries

SOURCE: Tsitologiya, v. 9, no. 1, 1967, 3-20

TOPIC TAGS: radiation elfect, W, radiation biologic effect, padiation recovery, dark recovery, photogramativetion, well physically, UV radiation

ABSTRACT: The author reviews some contemporary concepts of the mechanisms of cellular recovery from radiation-induced injuries. This comprehensive article is divided into the following sections: 1) molecular nature of injuries caused by UV radiation; 2) photoreactivation; 3) dark recovery; 4) molecular mechanism of dark recovery; 5) specificity of the mechanism of dark recovery; 6) biological role of radiation recovery. It is felt that DNA reparation after radiation injury takes place via photoreactivation and dark recovery. During photoreactivation,

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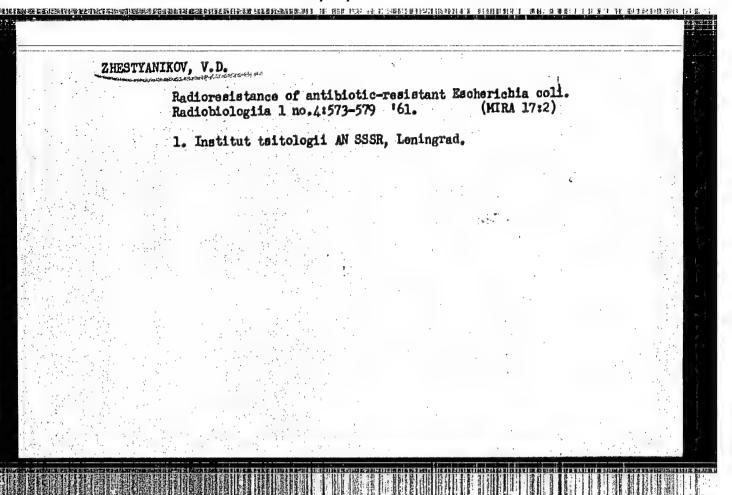
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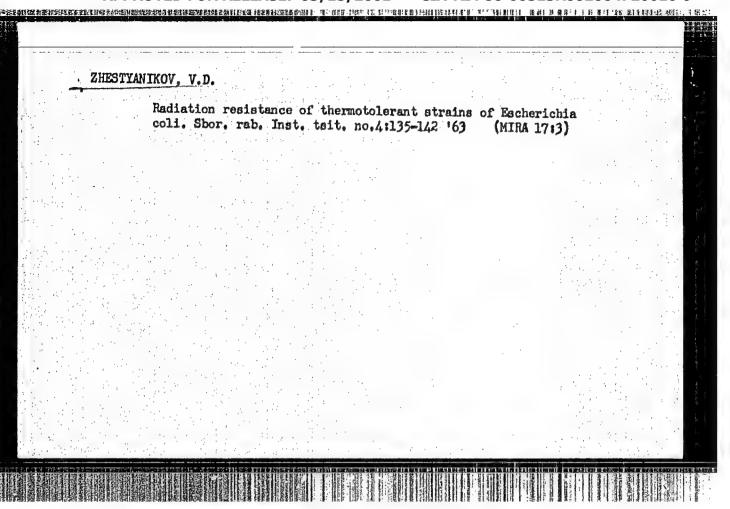
the recovery of normal DNA structure takes place by means of dimer cleavage (pyrimidines). This mechanism is very specific in that it applies only to UV radiation. Dark recovery is more complicated and occurs in several stages: dissociation of photoproducts from DNA; expansion of the lumen formed; accumulation of nucleotids in the lumen; coupling of P-O bonds; recovery of DNA structure. Dark recovery is non-specific, occurring after UV- and ionizing radiations, p³² transmutation, and exposure to many radiomimetics and chemical mutagens. The recovery of individual lesions does not require the total enzyme resources necessary for UV-induced recoveries. The process of dark recovery participates in the maintenance of natural DNA structure and is closely associated with genetic recombination and transformation. [CD]

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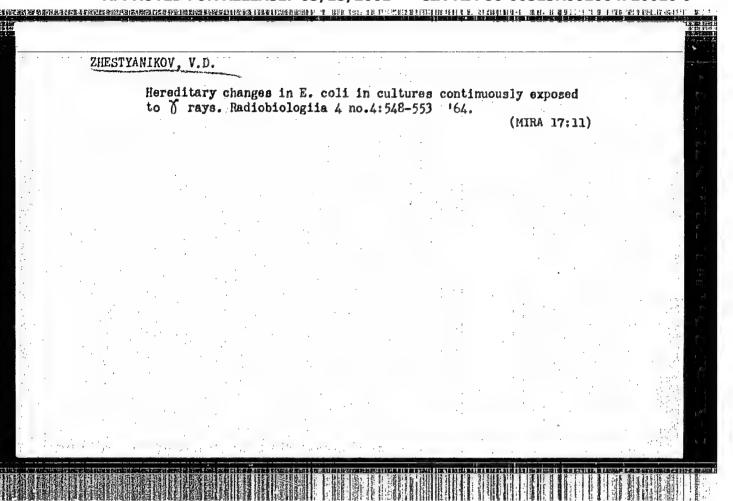
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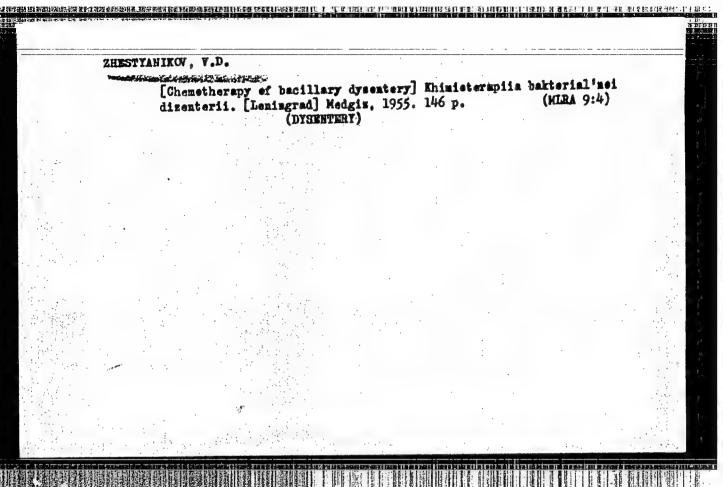
"Increase in the Radioresistance of Escherichia Coli Cultivated under Continuous Gamma-Irradiation." pp. 30

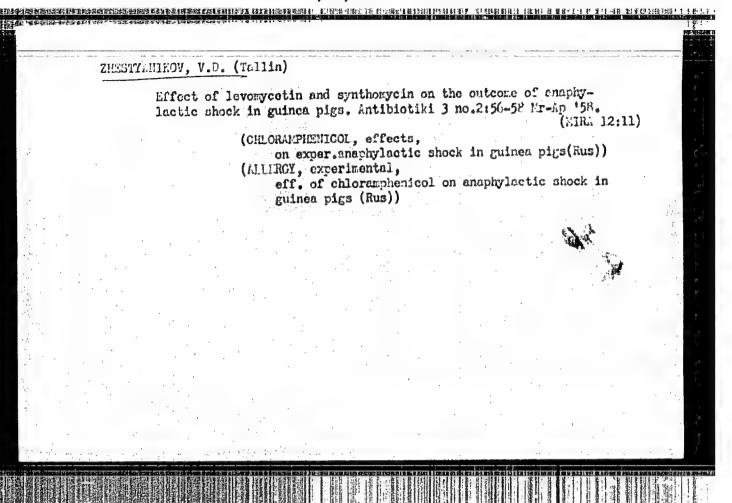
Institute of Cytology AS USSR Laboratory of Radiation Cytology

II Nauchmaya Konferentsuya Instituta Tsitologii AN SSSR. Tezisy Dokladov (Second Scientific Conference of the Institute of Cytology of the Academy of Sciences USSR, Abstracts of Reports), Leningrad, 1962 88 pp.

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S/205/61/001/004/021/032 D298/D303

27.1220

Zhestyanikov. V. D.

AUTHOR:

Resistance to radioactivity of Escherichia coli

resistant to antibiotics

PERIODICAL:

Radiobiologiya, v. 1, no. 4, 1961, 573,579

TEXT: The aim of the work was to study the resistance to radicactivity of strains of Escherichia coli which were resistant to antibiotics of various classes. The tests were carried out with 3 strains of E. coli B, B/r and Kl2. Strains resistant to penicillin, levomycetin, streptomycin, mycin, terramycin and erythromycin were obtained by passage on a meat-peptone broth (pH 7.3) with an increasing concentration of the particular antibiotic every 48 - 72 hours. The bacteria were suspended in tap water and irradiated with an PyM-11 (RUM-11) apparatus at an intensity of 1800 r/min. in doses ranging from 5.4 to 54 kr. The survival rate of the cultures was determined from the number of colonies which formed, expressed as a fraction of the colonies which formed in

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的服务和普通等活动研究已改变的影响的现在分词 医大耳耳及 医大耳耳耳及 医甲基甲基 计多数 医拉拉克斯氏结节炎 电二线电影 计同时记录

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Resistance to radioactivity

It was found that the changes in the resistance to radiation depended on the individual features of the strain. In E. coli B which was resistant to penicillin, resistance decreased after irradiation. In E. coli B strains resistant to erythromycin, mycerin and terramycin, the resistance to radioactivity was increased after irradiation. In E. coli B strains resistant to levomycetin and streptomycin, no change in the resistance to radioactivity—as compared with the original strain-was noted. Strains of E. coli B/r resistant to penicillin lowered their resistance after irradiation, while E. coli B/r strains resistant to mycerin increased their resistance. No change was noted in the E. coli B/r strains resistant to the other antibiotics. E. coli K12 strains resistant to the 6 antibiotics showed no change in resistance to radiation after irradiation. The author was assisted in his work by V. P. Paribok, K. I. Pravdina and N. A. Tolokontsev. There are 5 figures, 3 tables and 24 references: 8 Soviet-bloc and 16 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: T. S. Matney, D. M.

Card 2/3

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Resistance to radioactivity.

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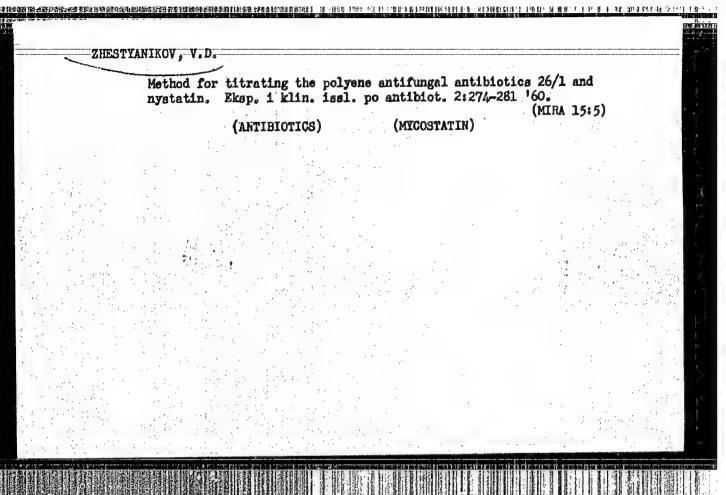
Institut tsitologii AN SSSR (Institute of Cytology, AS USSR), Leningrad

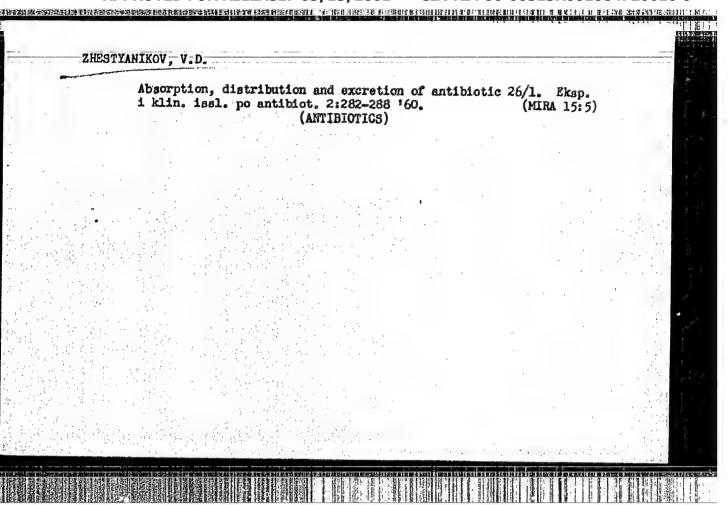
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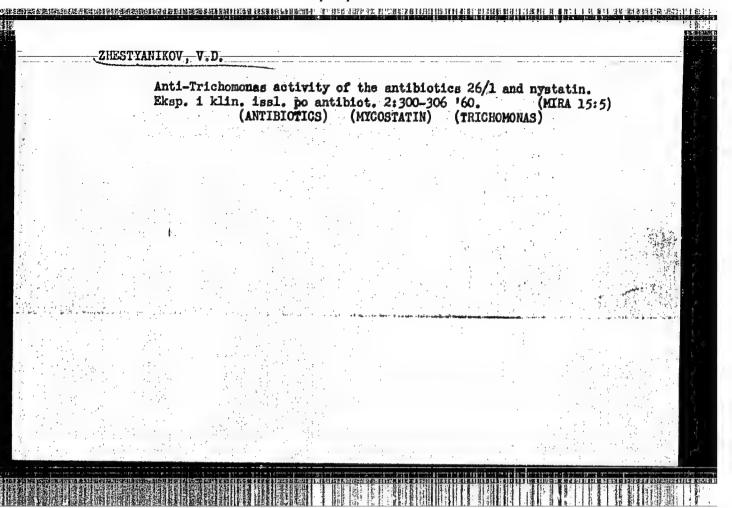
March 7, 1961

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APPROVED FOR RELEASE: 03/15/2001

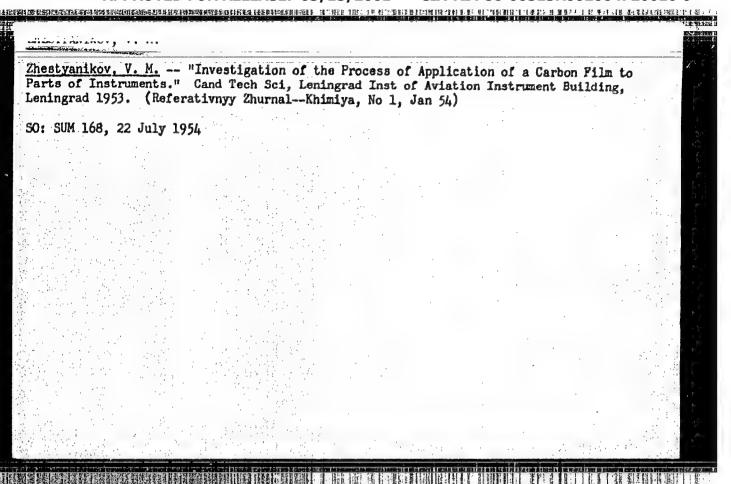






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APPROVED FOR RELEASE: 03/15/2001



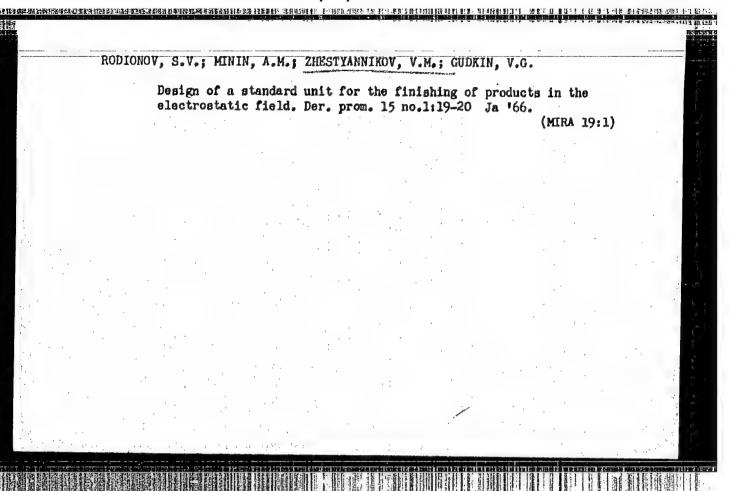
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	no. 1, 1953.	
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[Manufacture of automatic control and remote control equipment] Proizvodstvo apparatury avtomatiki i telemekhaniki.
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RODIONOV, Sergey Vasil'yevich; ZH.STYANIKOV, Vladimir Mikhaylovich;
RYABOV, Leonid Ivanovich; GARIBYAN, Knarik Yervandovna;
GONCHAROV, N.A., red.

[Finishing wood articles in an electrostatic field] Otdelka
izdelii iz drevesiny v elektrostaticheskom pole. Moskva,
Lesnaia promyshlennost', 1964. 96 p. (HIRA 17:10)



"APPROVED FOR RELEASE: 03/15/2001

AUTHOR:

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Znestyanikov, V. M. and drinters,

TITLE:

On the operation of vacuum photocells at reduced voltage

PERIODICAL:

Izv. Vuz., Priborostroyeniyo, v. VI, no. 2, 1963, 9-13

Although photocells are important components of many industrial and scientific instruments, little attention has been paid to their depather abler abnormal conditions. The authors consider the effect of return voltage of the circuit supplying the lamp illuminating the jost cell. An empir.cal equal.co.

$$I_{\beta} = \frac{U_{\beta} \otimes V}{K_{1} + K_{2} U_{\beta}}$$

is obtained for the volt-ampere characteristic of an antimony-cesium photocell in the region of reduced voltage. Here I is the photo current in pa, U is the photocell voltage in v, Ø = const is the light flux in lumens, and E . K, are Card 1/2

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On the operation of vacuum photocells...

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coefficients characterizing the light source and the sensitivity of the photocell. Analysis of the experimental results using the theory of errors yields equation linking the deviation of the photo current ΔI_{ρ} with the percentage deviations of

the photocell voltage $\delta_{U_{\beta}\%}$ and the lamp voltage $\delta_{U_{\overline{b}}}$. The most general of these equations reads:

 $\Delta I_{\not a} = c_1 \cdot \delta_{U_{\vec a} \not a} + c_2 \cdot m \delta_{U \not a},$

where m = 3.61 for a tungsten filament. This equation is most accurate for $U_{g} = 10-300$ v and for variations in the lamp voltage of \pm 10%. The method can also be applied to non-vacuum photocells. There is 1 figure.

ASSOCIATION:

Lesotekhnicheskaya akademiya im. J. M. Kirova (Forestry Engin-

eering Academy imeni S. M. Kirov)

SUBMITTED:

March 30, 1962

Card 2/2

RODIONOV, S.V.; ZHESTYANIKOV, Y.M.; RYABOV, L.I.; IZRAL'YANTS, V.M.; GOLUBEVA, T.M., inzh., red.; SHILLING, V.A., red.izd-va; BELOGUROVA, I.A., tekhn. red.

[Varnishing of wooden components in an electrostatic field using capacitive generators] Lakirovka detalei iz drevesiny v elektrostaticheskom pole s primeneniem emkostnykh generatorov. Leningrad, 1962. 27 p. (Leningradskii dom nauchnotekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Derevoobrabatyvaiushchaia promyshlennost!, no.9)

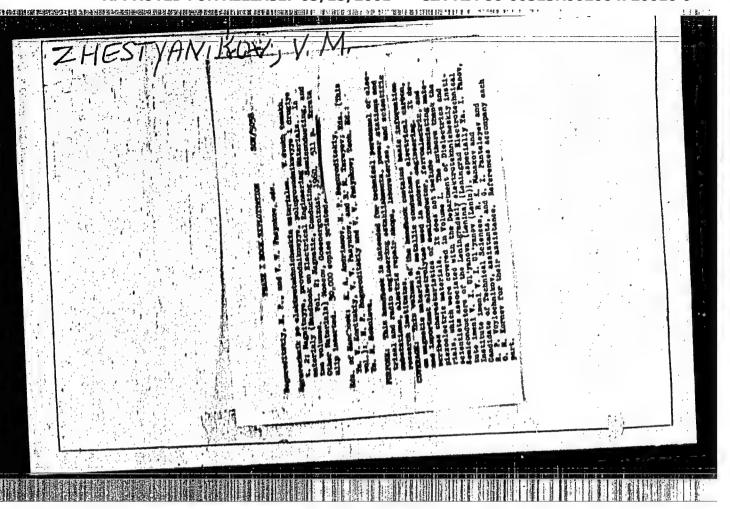
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PROTANSKAYA, I.V., red.izd-wa; SHIEMOVA, R.Ye., tekhn.red.

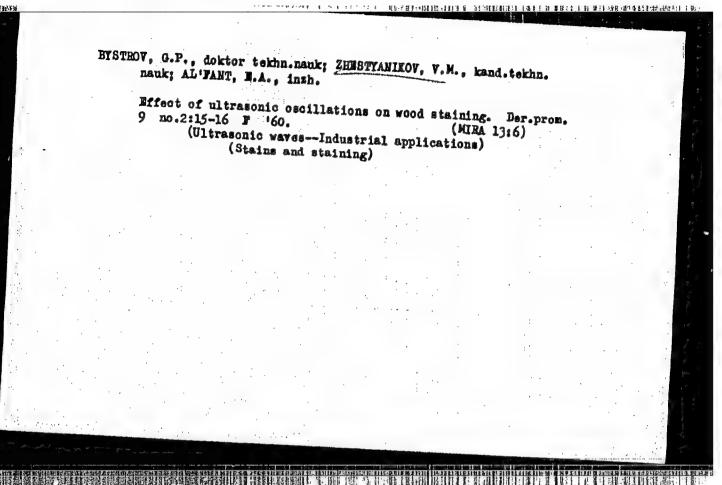
[Manual for electricians working in lumbering]Posobie dlia
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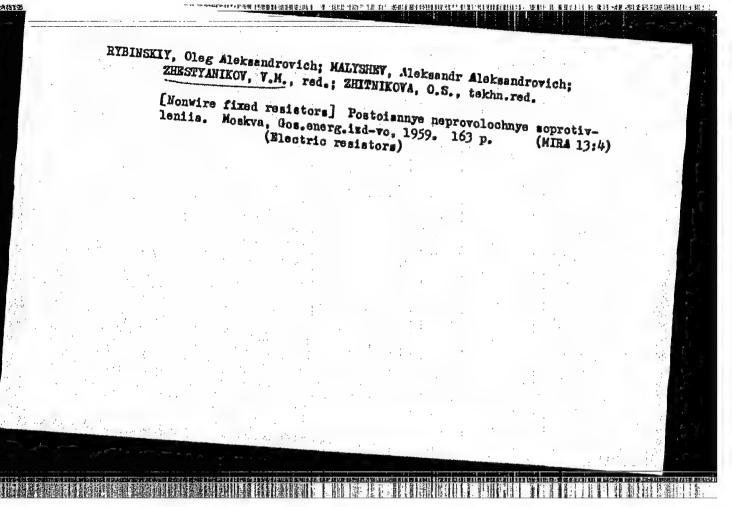


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[Electrical equipment for lumbering onterprises] Hektrooboruizdat, 1960. 406 p.

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(Lumbering—Equipment and supplies) (Electric machinery)



ZHESTYANNIKOV, Vladimir Mikhaylovich

Tekhnologiya i oborudovaniye proisvodstva detaley i uzlov radiotekhnicheskoy apparatury /Technology and production facilities for components and units of radio apparatus, by / V. M. Zhestyannikov / 1 / P. A. Obnovlenskiy. Moskva, Oborongiz, 1958.
251 P. Illus., Diagrs., Tables.
Cover title: Proizvodstvo detaley i uzlov radioapparatury.

sov/1323 PHASE I BOOK EXPLOITATION 9(2) Avenirovich Zhestyanikov, Vladimir Mikhaylovich and Peter Obnovlenskiy Tekhnologiya i oborudovaniye proizvodstva detaley i uzlov radiotekhnicheskoy apparatury (Production Methods and Equipment Employed in the Manufacture of Radio Parts and Units) Moscow, Oborongiz, 1958. 251 p. 11,000 copies printed. Reviewer: Kalita, Ye. D., Engineer; Ed.: Blaut-Blacheva, V.I., Engineer; Ed. of Publishing House: Sheynfaun, L.I.; Tech. Ed.: Zudakin, I.M.; Managing Ed.: Sokolov, A.I., THE WAR ADDITIONED AS A textbook for aviation and Engineer. radio-engineering centilities > Special Secondary Schools of the Ministry of Higher Education, The COVERAGE; The authors describe the planning of manufacturing processes and explain the processes of forging, casting, welding,

sov/1323 Production Methods and Equipment (Cont.)

They describe the brazing, soldering and moisture-proofing. manufacture of capacitors, resistors, transformers, chokes, switches, waveguides and delay lines made of plastic and ceramic materials. Equipment used in the manufacture of these parts is also described.

The authors claim that until now the Soviet technical literature has not made available a textbook for tekhnikums covering the subject of production processes involved in the manufacture of radio parts. They state that the present book was written to fill this gap.

Chapters IX and XII and the larger part of paragraph 8.3 were written by Engineer A.G. Rabinovich.

The authors thank Engineers Ye. D. Kalita, V.I. Venglinskiy and B. Ye. Chertok for technical advice and Engineer V.I. Blaut-Blacheva for help in editing. There are 21 references, all are Soviet.

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